



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX- 355 B

PRODUCT : NHH 44 Bt-COTTON SEEDS

STUDY : SUB CHRONIC ORAL TOICITY TOXICITY STUDY IN RATS

REPORT NO. : 000046990

DATE : 18.5.2007

Confidential

**TABLE - 5.01
MEAN PERCENTILE ORGAN WEIGHT DATA OF MALE RATS AT TERMINAL SACRIFICE**

DOSAGE GROUP			
Organs	Control (Corn Oil Only)	NHH 44 Bt-Cotton seeds	NHH 44 Non Bt-Cotton seeds
Lung	0.70 ± 0.07	0.74 ± 0.13	0.85 ± 0.44
Liver	3.11 ± 0.43	3.07 ± 0.56	3.50 ± 0.73
Kidney	0.76 ± 0.09	0.89 ± 0.12	0.86 ± 0.15
Testis	1.22 ± 0.08	1.18 ± 0.13	1.18 ± 0.09
Adrenal	0.02 ± 0.01	0.02± .004	0.02± .000
Heart	0.31 ± 0.05	0.34 ± 0.05	0.37 ± 0.06
Spleen	0.26± 0.06	0.23 ± 0.06	0.30 ± 0.10
Brain	0.79 ± 0.04	0.83 ± 0.05s	0.49 ± 0.28

* P ≤ 0.05



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**TABLE - 5.02
MEAN PERCENTILE ORGAN WEIGHT DATA OF FEMALE RATS AT TERMINAL SACRIFICE**

DOSAGE GROUP			
Organs	Control (Corn Oil Only)	NHH 44 Bt-Cotton seeds	NHH 44 Non Bt-Cotton seeds
Lung	0.70 ± 0.12	0.79 ± 0.08	0.80 ± 0.11
Liver	2.72 ± 0.28	3.17 ± 0.62	3.32 ± 0.44
Kidney	0.65 ± 0.08	0.82 ± 0.10	0.73 ± 0.06
Ovaries	0.05 ± 0.01	0.05 ± 0.01	0.08 ± 0.02
Uterus	0.15 ± 0.02	0.21 ± 0.09	0.21 ± 0.06
Adrenal	0.02 ± .007	0.03 ± 0.01	0.03 ± 0.01
Heart	0.31 ± 0.04	0.33 ± 0.04	0.36 ± 0.04
Spleen	0.23 ± 0.04	0.25 ± 0.05	0.30 ± 0.06
Brain	0.80 ± 0.04	0.77 ± 0.03	0.79 ± 0.06

* P ≤ 0.05



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**TABLE -5.03
AVERAGE ORGAN WEIGHT DATA OF MALE RATS AT TERMINAL SACRIFICE**

DOSAGE GROUP			
Organs	Control (Corn Oil Only)	NHH 44 Bt-Cotton seeds	NHH 44 Non Bt-Cotton seeds
Lung	1.61 ± 0.15	1.72 ± 0.31	1.96 ± 1.03
Liver	7.15 ± 1.06	7.17 ± 1.33	8.10 ± 1.67
Kidney	1.74 ± 0.22	2.07 ± 0.29	2.00 ± 0.35
Testis	2.81 ± 0.22	2.75 ± 0.31	2.74 ± 0.19
Adrenal	0.05 ± 0.01	0.06± 0.01	0.05± 0.01
Heart	0.70 ± 0.11	0.79 ± 0.12	0.85 ± 0.15
Spleen	0.60± 0.13	0.54 ± 0.14	0.69 ± 0.22
Brain	1.82 ± 0.08	1.93 ± 0.12	0.52 ± 0.64

* P ≤ 0.05

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TABLE - 5.04
AVERAGE ORGAN WEIGHT DATA OF FEMALE RATS AT TERMINAL SACRIFICE

DOSAGE GROUP			
Organs	Control (Corn Oil Only)	NHH 44 Bt-Cotton seeds	NHH 44 Non Bt-Cotton seeds
Lung	1.59 ± 0.27	1.82 ± 0.18	1.86 ± 0.25
Liver	6.20 ± 0.63	7.34 ± 1.44	7.70 ± 0.96
Kidney	1.48 ± 0.18	1.89 ± 0.23	1.69 ± 0.12
Ovaries	0.12 ± 0.02	0.13 ± 0.02	0.18 ± 0.05
Uterus	0.34 ± 0.06	0.49 ± 0.20	0.50 ± 0.13
Adrenal	0.05 ± 0.02	0.05 ± 0.01	0.07 ± 0.03
Heart	0.71 ± 0.09	0.76 ± 0.09	0.83 ± 0.09
Spleen	0.51 ± 0.08	0.57 ± 0.11	0.69 ± 0.13
Brain	1.82 ± 0.1	1.79 ± 0.07 ^{ss}	1.82 ± 0.13

* P ≤ 0.05



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**TABLE - 5.05
ABSOLUTE & RELATIVE ORGAN WEIGHT DATA OF CONTROL GROUP OF MALE RATS AT TERMINAL SACRIFICE**

Animal No	Sex	Body Weight in gms	Lung		Liver		Kidney		Testis		Adrenal		Heart		Spleen		Brain	
			Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.
1	M	231	1.86	0.81	9.08	3.93	2.18	0.94	2.8	1.21	0.06	0.03	0.94	0.41	0.83	0.36	1.88	0.81
2	M	226	1.47	0.65	6.46	2.86	1.6	0.71	2.85	1.26	0.04	0.02	0.62	0.27	0.44	0.19	1.74	0.77
3	M	225	1.81	0.80	5.48	2.44	1.48	0.66	2.84	1.26	0.03	0.01	0.65	0.29	0.51	0.23	1.84	0.82
4	M	223	1.48	0.66	6.23	2.79	1.51	0.68	2.44	1.09	0.04	0.02	0.6	0.27	0.56	0.25	1.78	0.80
5	M	234	1.59	0.68	6.79	2.90	1.61	0.69	2.63	1.12	0.06	0.03	0.76	0.32	0.54	0.23	1.72	0.74
6	M	240	1.42	0.59	7.69	3.20	1.8	0.75	3.3	1.38	0.06	0.03	0.82	0.34	0.45	0.19	1.73	0.72
7	M	228	1.52	0.67	7.95	3.49	1.81	0.79	2.94	1.29	0.02	0.01	0.74	0.32	0.64	0.28	1.79	0.79
8	M	232	1.74	0.75	7.76	3.34	1.66	0.72	2.75	1.19	0.05	0.02	0.58	0.25	0.71	0.31	1.83	0.79
9	M	227	1.69	0.74	6.37	2.81	1.8	0.79	2.75	1.21	0.05	0.02	0.65	0.29	0.59	0.26	1.99	0.88
10	M	232	1.56	0.67	7.71	3.32	1.99	0.86	2.76	1.19	0.06	0.03	0.66	0.28	0.74	0.32	1.85	0.80
Mean		229.80	1.61	0.70	7.15	3.11	1.74	0.76	2.81	1.22	0.05	0.02	0.70	0.31	0.60	0.26	1.82	0.79
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		5.03	0.15	0.07	1.06	0.43	0.22	0.09	0.22	0.08	0.01	0.01	0.11	0.05	0.13	0.06	0.08	0.04



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**TABLE - 5.06
 ABSOLUTE & RELATIVE ORGAN WEIGHT DATA OF CONTROL GROUP OF FEMALE RATS AT TERMINAL SACRIFICE**

Animal No	Sex	Body Weight in gms	Lung		Liver		Kidney		Ovaries		Uterus		Adrenal		Heart		Spleen		Brain	
			Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.
1	F	225	1.4	0.62	6.34	2.82	1.53	0.68	0.09	0.04	0.36	0.16	0.05	0.02	0.64	0.28	0.5	0.22	1.75	0.78
2	F	227	1.52	0.67	7.15	3.15	1.53	0.67	0.11	0.05	0.39	0.17	0.04	0.02	0.75	0.33	0.62	0.27	2.01	0.89
3	F	227	1.34	0.59	5.74	2.53	1.25	0.55	0.1	0.04	0.35	0.15	0.03	0.01	0.53	0.23	0.6	0.26	1.84	0.81
4	F	236	1.3	0.55	5.43	2.30	1.29	0.55	0.13	0.06	0.31	0.13	0.05	0.02	0.61	0.26	0.41	0.17	1.87	0.79
5	F	233	1.72	0.74	6.55	2.81	1.7	0.73	0.16	0.07	0.43	0.18	0.05	0.02	0.72	0.31	0.63	0.27	1.9	0.82
6	F	227	1.5	0.66	5.16	2.27	1.3	0.57	0.12	0.05	0.27	0.12	0.09	0.04	0.73	0.32	0.39	0.17	1.91	0.84
7	F	225	1.48	0.66	6.05	2.69	1.41	0.63	0.14	0.06	0.33	0.15	0.04	0.02	0.81	0.36	0.51	0.23	1.72	0.76
8	F	222	1.75	0.79	6.23	2.81	1.56	0.70	0.13	0.06	0.28	0.13	0.05	0.02	0.78	0.35	0.5	0.23	1.66	0.75
9	F	230	1.63	0.71	6.44	2.80	1.78	0.77	0.1	0.04	0.38	0.17	0.07	0.03	0.71	0.31	0.5	0.22	1.78	0.77
10	F	229	2.23	0.97	6.93	3.03	1.42	0.62	0.15	0.07	0.25	0.11	0.06	0.03	0.78	0.34	0.48	0.21	1.74	0.76
Mean		228.10	1.59	0.70	6.20	2.72	1.48	0.65	0.12	0.05	0.34	0.15	0.05	0.02	0.71	0.31	0.51	0.23	1.82	0.80
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		4.09	0.27	0.12	0.63	0.28	0.18	0.08	0.02	0.01	0.06	0.02	0.02	.007	0.09	0.04	0.08	0.04	0.11	0.04



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**TABLE - 5.07
ABSOLUTE & RELATIVE ORGAN WEIGHT DATA OF (NHH 44 Bt-COTTON SEEDS) OF MALE RATS AT
TERMINAL SACRIFICE**

Animal No	Sex	Body Weight in gms	Lung		Liver		Kidney		Testis		Adrenal		Heart		Spleen		Brain	
			Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.
1	M	229	1.47	0.64	8.47	3.70	2.13	0.93	2.52	1.10	0.04	0.02	0.84	0.37	0.7	0.31	1.83	0.80
2	M	231	1.79	0.77	7.28	3.15	2.18	0.94	2.7	1.17	0.05	0.02	0.81	0.35	0.79	0.34	2.12	0.92
3	M	238	1.85	0.78	6.36	2.67	1.91	0.80	2.57	1.08	0.06	0.03	0.73	0.31	0.44	0.18	2.02	0.85
4	M	230	2.14	0.93	7.42	3.23	2.25	0.98	3.36	1.46	0.05	0.02	0.86	0.37	0.46	0.20	2	0.87
5	M	235	1.88	0.80	9.25	3.94	2.54	1.08	2.98	1.27	0.07	0.03	0.87	0.37	0.67	0.29	1.96	0.83
6	M	232	1.3	0.56	6.64	2.86	1.62	0.70	2.49	1.07	0.05	0.02	0.63	0.27	0.39	0.17	2.03	0.88
7	M	236	1.6	0.68	5.68	2.41	1.84	0.78	2.58	1.09	0.06	0.03	0.62	0.26	0.52	0.22	1.83	0.78
8	M	233	1.4	0.60	5.91	2.54	1.87	0.80	2.66	1.14	0.06	0.03	0.88	0.38	0.43	0.18	1.71	0.73
9	M	239	2.24	0.94	8.92	3.73	2.41	1.01	3.13	1.31	0.07	0.03	0.99	0.41	0.57	0.24	1.96	0.82
10	M	229	1.54	0.67	5.78	2.52	1.91	0.83	2.47	1.08	0.06	0.03	0.69	0.30	0.39	0.17	1.85	0.81
Mean		233.20	1.72	0.74	7.17	3.07	2.07	0.89	2.75	1.18	0.06	0.02	0.79	0.34	0.54	0.23	1.93	0.83
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		3.65	0.31	0.13	1.33	0.56	0.29	0.12	0.31	0.13	0.01	.004	0.12	s				



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**TABLE - 5.08
ABSOLUTE & RELATIVE ORGAN WEIGHT DATA OF (NHH 44 Bt-COTTON SEEDS) OF FEMALE RATS AT
TERMINAL SACRIFICE**

Animal No	Sex	Body Weight in gms	Lung		Liver		Kidney		Ovaries		Uterus		Adrenal		Heart		Spleen		Brain	
			Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.
1	F	222	1.87	0.84	7.29	3.28	1.9	0.86	0.15	0.07	0.46	0.21	0.07	0.03	0.82	0.37	0.52	0.23	1.79	0.81
2	F	234	1.71	0.73	5.65	2.41	1.77	0.76	0.11	0.05	0.3	0.13	0.04	0.05	0.73	0.31	0.56	0.24	1.78	0.76
3	F	236	1.8	0.76	8.24	3.49	2.18	0.92	0.14	0.06	0.53	0.22	0.05	0.02	0.9	0.38	0.4	0.17	1.84	0.78
4	F	231	1.88	0.81	7.39	3.20	1.84	0.80	0.12	0.05	0.62	0.27	0.06	0.03	0.64	0.28	0.5	0.22	1.78	0.77
5	F	232	2.05	0.88	5.25	2.26	1.66	0.72	0.1	0.04	0.22	0.09	0.05	0.02	0.68	0.29	0.66	0.28	1.79	0.77
6	F	234	2.18	0.93	9.58	4.09	2.4	1.03	0.14	0.06	0.74	0.32	0.06	0.03	0.89	0.38	0.57	0.24	1.71	0.73
7	F	229	1.68	0.73	6.58	2.87	1.84	0.80	0.11	0.05	0.27	0.12	0.05	0.02	0.78	0.34	0.48	0.21	1.75	0.76
8	F	235	1.72	0.73	6.4	2.72	1.71	0.73	0.12	0.05	0.33	0.14	0.06	0.03	0.66	0.28	0.8	0.34	1.89	0.80
9	F	229	1.64	0.72	7.69	3.36	1.76	0.77	0.13	0.06	0.58	0.25	0.06	0.03	0.69	0.30	0.59	0.26	1.66	0.72
10	F	233	1.69	0.73	9.37	4.02	1.86	0.80	0.13	0.06	0.8	0.34	0.04	0.02	0.78	0.33	0.65	0.28	1.89	0.81
Mean		231.50	1.82	0.79	7.34	3.17	1.89	0.82	0.13	0.05	0.49	0.21	0.05	0.03	0.76	0.33	0.57	0.25	1.79	0.77
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		4.09	0.18	0.08	1.44	0.62	0.23	0.10	0.02	0.01	0.20	0.09	0.01	0.01	0.09	0.04	0.11	0.05	0.07	0.03



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**TABLE - 5.09
 ABSOLUTE & RELATIVE ORGAN WEIGHT DATA OF (NHH 44 NON Bt-COTTON SEEDS) OF MALE RATS AT
 TERMINAL SACRIFICE**

Animal No	Sex	Body Weight in gms	Lung		Liver		Kidney		Testis		Adrenal		Heart		Spleen		Brain	
			Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.
1	M	227	1.71	0.75	9.03	3.98	2	0.88	2.83	1.25	0.04	0.02	0.76	0.33	0.88	0.39	1.85	0.81
2	M	233	4.84	2.08	9.8	4.21	2.59	1.11	2.84	1.22	0.06	0.03	0.96	0.41	0.7	0.30	1.86	0.80
3	M	228	1.45	0.64	9.15	4.01	1.9	0.83	2.65	1.16	0.04	0.02	0.78	0.34	0.78	0.34	1.23	0.54
4	M	234	2.05	0.88	10.75	4.59	2.6	1.11	2.82	1.21	0.06	0.03	1.18	0.50	1.18	0.50	2.08	0.89
5	M	228	1.73	0.76	9.16	4.02	1.66	0.73	2.73	1.20	0.05	0.02	0.77	0.34	0.5	0.22	1.4	0.61
6	M	227	1.74	0.77	6.55	2.89	2.06	0.91	2.94	1.30	0.05	0.02	0.94	0.41	0.66	0.29	0.5	0.22
7	M	236	1.47	0.62	6.74	2.86	1.74	0.74	2.53	1.07	0.06	0.03	0.74	0.31	0.51	0.22	0.66	0.28
8	M	235	1.69	0.72	7.48	3.18	1.93	0.82	3.05	1.30	0.05	0.02	0.88	0.37	0.73	0.31	0.51	0.22
9	M	234	1.54	0.66	5.9	2.52	1.54	0.66	2.44	1.04	0.07	0.03	0.69	0.29	0.46	0.20	0.73	0.31
10	M	231	1.41	0.61	6.45	2.79	1.94	0.84	2.56	1.11	0.04	0.02	0.76	0.33	0.52	0.23	0.46	0.20
Mean		231.30	1.96	0.85	8.10	3.50	2.00	0.86	2.74	1.18	0.05	0.02	0.85	0.37	0.69	0.30	0.52	0.49
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		3.53	1.03	0.44	1.67	0.73	0.35	0.15	0.19	0.09	0.01	0.00	0.15	0.06	0.22	0.10	0.64	0.28



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TABLE - 5.10

ABSOLUTE & RELATIVE ORGAN WEIGHT DATA OF (NHH 44 NON Bt-COTTON SEEDS) OF FEMALE RATS AT TERMINAL SACRIFICE

Animal No	Sex	Body Weight in gms	Lung		Liver		Kidney		Ovaries		Uterus		Adrenal		Heart		Spleen		Brain	
			Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.	Wt. In gm	% Body wt.
1	F	229	2.2	0.96	8.68	3.79	1.87	0.82	0.16	0.07	0.78	0.34	0.04	0.02	0.93	0.41	0.94	0.41	1.8	0.79
2	F	230	1.85	0.80	6.52	2.83	1.71	0.74	0.17	0.07	0.57	0.25	0.05	0.02	0.74	0.32	0.65	0.28	1.82	0.79
3	F	234	1.97	0.84	6.69	2.86	1.78	0.76	0.19	0.08	0.59	0.25	0.09	0.04	0.84	0.36	0.58	0.25	1.97	0.84
4	F	229	2.28	1.00	9.46	4.13	1.73	0.76	0.24	0.10	0.42	0.18	0.06	0.03	0.9	0.39	0.87	0.38	1.98	0.86
5	F	233	1.64	0.70	7.47	3.21	1.7	0.73	0.15	0.06	0.53	0.23	0.11	0.05	0.8	0.34	0.57	0.24	1.87	0.80
6	F	237	2	0.84	7.77	3.28	1.71	0.72	0.26	0.11	0.48	0.20	0.06	0.03	0.85	0.36	0.57	0.24	1.7	0.72
7	F	234	1.82	0.78	6.52	2.79	1.44	0.62	0.11	0.05	0.32	0.14	0.04	0.02	0.62	0.26	0.65	0.28	1.8	0.77
8	F	227	1.68	0.74	7.87	3.47	1.7	0.75	0.23	0.10	0.38	0.17	0.08	0.04	0.82	0.36	0.7	0.31	1.55	0.68
9	F	233	1.66	0.71	7.7	3.30	1.53	0.66	0.13	0.06	0.49	0.21	0.11	0.05	0.91	0.39	0.65	0.28	1.95	0.84
10	F	233	1.49	0.64	8.29	3.56	1.68	0.72	0.2	0.09	0.41	0.18	0.06	0.03	0.9	0.39	0.73	0.31	1.8	0.77
Mean		231.90	1.86	0.80	7.70	3.32	1.69	0.73	0.18	0.08	0.50	0.21	0.07	0.03	0.83	0.36	0.69	0.30	1.82	0.79
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		3.03	0.25	0.11	0.96	0.44	0.12	0.06	0.05	0.02	0.13	0.06	0.03	0.01	0.09	0.04	0.13	0.06	0.13	0.06